

THE CLAIMS

What is claimed is:

1. A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne polymer of multi-olefin, iso-olefin, or a combination thereof.
2. The golf ball of claim 1, wherein the filler is selected from a group consisting of leafing aluminum, mica flakes, micaceous iron oxide flakes, aluminum flakes, ceramic flakes, graphite flakes, and mixtures thereof.
3. The golf ball of claim 1, wherein the multi-olefin is conjugated.
4. The golf ball of claim 1, wherein the multi-olefin has about 4 to about 14 carbon atoms.
5. The golf ball of claim 1, wherein the iso-olefin has about 4 to about 7 carbon atoms.
6. The golf ball of claim 1, wherein the elastomer is halogenated, sulfonated, or both.
7. The golf ball of claim 2, wherein the elastomer is halogenated, and comprises at least one of the following:
 - less than about 3% reactive halogen;
 - less than about 1 halogen atom per double bond;
 - a benzylic bromine functionality; or
 - a branched styrenic block.
8. The golf ball of claim 1, wherein the polymer comprises branched styrenic blocks.

9. The golf ball of claim 1, wherein the composition further comprises at least one polymer selected from a group consisting of vinylidene chloride polymers, double-bond vulcanizable rubber, and ionomers.
10. The golf ball of claim 1, wherein the composition has a moisture vapor transmission rate of about $0.001 \text{ grams}\cdot\text{mm}/\text{m}^2\cdot\text{day}$ to about $0.6 \text{ grams}\cdot\text{mm}/\text{m}^2\cdot\text{day}$.
11. The golf ball of claim 1, wherein the composition is a dynamically vulcanizable thermoplastic elastomer blend adhesive to diene rubbers.
12. The golf ball of claim 1, wherein the polymer has a molecular weight of about 5,000 to about 500,000.
13. The golf ball of claim 1, wherein the composition forms a tortuous path against moisture vapor encroachment.
14. The golf ball of claim 1, wherein the composition is cured by infra red radiation or a combination of infra red and ultra violet radiations.
15. The golf ball of claim 1, wherein the polymer comprises about 30% to about 0.2% of the multi-olefin and about 70% to about 99.8% by weight of the iso-olefin.
16. The golf ball of claim 1, wherein the polymer is amorphous and non-polar.
17. The golf ball of claim 1, wherein the polymer is a highly paraffinic hydrocarbon polymer composed on long straight chain molecules containing only chain-end olefinic bonds.
18. The golf ball of claim 1, wherein the subassembly has a Shore D hardness of less than about 60.
19. The golf ball of claim 1, wherein the subassembly has a Shore D hardness of greater than about 50.

20. A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne polymer of multi-olefin, iso-olefin, or a combination thereof, and a curing agent comprising sulfur, peroxide, or oxide.